What is claimed is:

10

20

1. A capacitive touch sensor comprising:

an electrically continuous optically transparent conductive film covering a touch sensitive area;

an optically transparent self-supporting flexible glass layer disposed on the conductive film; and

an electrical circuitry configured to detect a signal induced by capacitive coupling between the conductive film and a touch input applied to the flexible glass layer, the signal being used to determine the touch location.

- 2. The capacitive touch sensor of claim 1, further comprising an optically transparent bonding layer for bonding the flexible glass layer to the conductive film.
- 15 3. The capacitive touch sensor of claim 2, wherein the bonding layer is an adhesive.
 - 4. The capacitive touch sensor of claim 2 further comprising a barrier layer disposed between the bonding layer and the conductive film.
 - 5. The capacitive touch sensor of claim 2, wherein the bonding layer is UV curable.
- 6. The capacitive touch sensor of claim 5, wherein the bonding layer comprises a UV absorber.
 - 7. The capacitive touch sensor of claim 1, further comprising a field linearization pattern disposed along the perimeter of the touch sensitive area.

- 8. The capacitive touch sensor of claim 7, wherein the flexible glass layer covers at least a portion of the linearization pattern.
- 9. The capacitive touch sensor of claim 1, wherein the conductive film is disposed
 5 on an optically transparent substrate.
 - 10. The capacitive touch sensor of claim 1, wherein the flexible glass layer covers at least a portion of the electrical circuitry.
- 10 11. The capacitive touch sensor of claim 1, further comprising electronics adapted to receive the detected signal to determine the touch location.
 - 12. The capacitive touch sensor of claim 1, wherein the sheet resistance of the conductive film is in the range of 100 to 50,000 Ohms/Square.
 - 13. The capacitive touch sensor of claim 1, wherein the sheet resistance of the conductive film is in the range of 200 to 10,000 Ohms/Square.
- 14. The capacitive touch sensor of claim 1, wherein the sheet resistance of the conductive film is in the range of 500 to 4,000 Ohms/Square
 - 15. The capacitive touch sensor of claim 1, wherein the thickness of the flexible glass layer is in the range of 0.1 to 1.5 mm.
- 25 16. The capacitive touch sensor of claim 1, wherein the thickness of the flexible glass layer is in the range of 0.3 to 1.5 mm.
 - 17. The capacitive touch sensor of claim 1, wherein the thickness of the flexible glass layer is in the range of 0.5 to 1.0 mm.

- 18. The capacitive touch sensor of claim 1, wherein the flexible glass layer comprises a soda lime glass.
- 19. The capacitive touch sensor of claim 1, wherein the flexible glass layer5 comprises a borosilicate glass.
 - 20. The capacitive touch sensor of claim 1, wherein the transparent conductive film comprises a metal.
- 10 21. The capacitive touch sensor of claim 1, wherein the transparent conductive film comprises a metal oxide.
 - 22. The capacitive touch sensor of claim 21, wherein the metal oxide comprises Indium Tin Oxide (ITO).
 - 23. The capacitive touch sensor of claim 21, wherein the metal oxide comprises Tin Antimony Oxide (TAO).
- 24. The capacitive touch sensor of claim 21, wherein the metal oxide comprises20 fluorine doped tin oxide.
 - 25. The capacitive touch sensor of claim 1, wherein the transparent conductive film comprises an organic conductor.
- 25 26. The capacitive touch sensor of claim 25, wherein the organic conductor comprises a conductive polymer.
 - 27. The capacitive touch sensor of claim 1 being combined with a display viewable through the touch sensor.

- 28. The capacitive touch sensor of claim 1 further comprising a touch implement coupled to the touch sensor.
- 29. The capacitive touch sensor of claim 28, wherein the touch implement is
 5 electrically coupled to the touch sensor.
 - 30. The capacitive touch sensor of claim 28, wherein the touch implement is coupled to the touch sensor via electrically conductive wires.
- 10 31. The capacitive touch sensor of claim 28, wherein the touch implement is a stylus.
 - 32. A signature capture device comprising the capacitive touch sensor of claim 1.
- 15 33. A capacitive touch sensor comprising:

an electrically continuous optically transparent conductive film disposed between and optically coupled to an optically transparent self-supporting flexible glass film and an optically transparent substrate; and

electronics configured to determine location of a touch input applied to the
flexible glass layer by detecting a signal induced by capacitive coupling between the
conductive film and the touch input.

- 34. The capacitive touch sensor according to claim 33, wherein the conductive film is in contact with the flexible glass.
- 35. The capacitive touch sensor according to claim 33, wherein the conductive film is in contact with the substrate.
- 36. The capacitive touch sensor according to claim 33, wherein an optically
 30 transparent bonding layer optically couples the conductive film to the flexible glass.

- 37. The capacitive touch sensor according to claim 33, wherein an optically transparent bonding layer optically couples the conductive film to the substrate.
- 5 38. The capacitive touch sensor according to claims 36 or 37, wherein the bonding layer is an adhesive.
 - 39. The capacitive touch sensor according to claim 33, further comprising a controller to receive the detected signal to determine the touch location.
 - 40. A capacitive touch sensor comprising:

20

an electrically continuous optically transparent conductive film covering a touch sensitive area, the touch sensor being capable of detecting two or more distinct touch locations within the touch sensitive area;

an optically transparent glass layer disposed on the conductive film, the glass layer having a thickness in the range of 0.1 to 2.0 mm; and

a controller configured to detect a signal induced by capacitive coupling between the conductive film and a touch input applied to the glass layer, the signal being detected at a plurality of positions on the conductive film and used to determine the location of the applied touch input.

- 41. The capacitive touch sensor according to claim 40, wherein the optically transparent glass layer is flexible.
- 25 42. The capacitive touch sensor according to claim 40, wherein the glass layer has a thickness in the range of 0.3 to 1.5 mm.
 - 43. A method of determining location of a touch input to a touch sensor comprising the steps of:

capacitively coupling the touch input to an electrically continuous optically transparent conductive film covering a touch sensitive area of the touch sensor, the capacitive coupling occurring through an optically transparent self-supporting flexible glass layer disposed over the conductive film;

- detecting a signal induced by the capacitive coupling; and using the detected signal to determine the touch location.
- 44. A method of determining a touch location comprising the steps of:
 defining a touch sensitive area comprising an optically transparent selfsupporting glass layer disposed on an electrically continuous optically transparent
 conductive film;

detecting a signal generated in response to a capacitive coupling between the conductive film and a touch input applied to the glass layer; and using the detected signal to determine the touch location.

15

- 45. A touch display comprising:
 - a display substrate;

an optically transparent self-supporting flexible glass layer disposed on the display substrate and covering a touch sensitive area; and

an active display component and an electrically continuous optically transparent conductive film disposed between the display substrate and the flexible glass layer and covering the touch sensitive area, wherein a location of a touch input applied to the flexible glass layer in the touch sensitive area is determined by detecting a signal induced by capacitive coupling between the conductive film and the touch input.

25